

Amendments to the Claims:

1-2 (Cancelled)

3. (Currently Amended) A method for preparing a donor cells for nuclear transfer, comprising the steps of:

- (a) applying electrical stimulation to embryonic stem cells ~~donor cells comprising differentiated cells and undifferentiated cells;~~
- (b) reacting the electrically stimulated ~~donor~~ cells of step (a) with an antibody against a membrane antigen marker that is specifically expressed in ~~[[to]]~~ undifferentiated embryonic stem cells used in step (a) to select undifferentiated ~~donor~~ cells from the electrically stimulated cells; and
- (c) conducting synchronous culture of the selected undifferentiated ~~donor~~ cells of step (b) to a metaphase stage.

4. (Currently Amended) The method for preparing a donor cells for nuclear transfer according to claim 3, wherein the embryonic stem cells are obtained from a mammal ~~donor cell is an embryo stem cell.~~

5. (Currently Amended) The method for preparing a donor cells for nuclear transfer according to claim 3, wherein chromosomes of the ~~donor cell~~ embryonic stem cells are genetically modified by genetic engineering means.

6. (Cancelled)

7. (Withdrawn) A method for preparing a donor cell for nuclear transfer, comprising the steps of:

- (a) reacting donor cells with an antibody against a membrane antigen marker that is specifically expressed in undifferentiated cells;

- (b) identifying an antigen-antibody reaction in the reacted donor cells to select undifferentiated donor cells; and
- (c) conducting synchronous culture of the undifferentiated donor cells to a metaphase stage.

8. (Withdrawn) The method for preparing a donor cell for nuclear transfer according to claim 7, wherein the membrane antigen marker that is specifically expressed in undifferentiated cells is selected from the group consisting of SSEA-1 (stage-specific embryonic antigen-1), CD117(c-kit), sca-1 (Stem Cell Antigen), and CD31 (PECAM-1, Platelet Endothelial Cell Anhesion Molecule-1).

9. (Withdrawn) The method for preparing a donor cell for nuclear transfer according to claim 7, wherein the donor cell is an embryonic stem cell.

10. (Withdrawn) The method for preparing a donor cell for nuclear transfer according to claim 7, wherein chromosomes of the donor cell are further modified by genetic engineering means.

11. (Withdrawn) The method for preparing a donor cell for nuclear transfer according to claim 7, wherein the nuclear transfer is cell fusion.

12. (Withdrawn) A method of nuclear transfer comprising the steps of:
(a) preparing a donor cell by the method of claim 1; and
(b) conducting nuclear transfer of the prepared donor cell into a recipient cell from which chromosomes are removed.

13. (Withdrawn) A method of nuclear transfer comprising the steps of:
(a) preparing a donor cell by the method of claim 7; and

(b) conducting nuclear transfer of the prepared donor cell into a recipient cell from which chromosomes are removed.

14. (Withdrawn) A method for producing an animal comprising the steps of:

- (a) reconstituting an animal embryo by the method of claim 12; and
- (b) generating an animal from the reconstituted embryo.

15. (Withdrawn) A method for producing an animal comprising the steps of:

- (a) reconstituting an animal embryo by the method of claim 13; and
- (b) generating an animal from the reconstituted embryo.

16. (Withdrawn) A donor cell for nuclear transfer prepared by the method of claim 1.

17. (Withdrawn) A donor cell for nuclear transfer prepared by the method of claim 7.

18. (Withdrawn) A reconstituted embryo prepared by the nuclear transfer method of claim 12.

19. (Withdrawn) A reconstituted embryo prepared by the nuclear transfer method of claim 13.

20. (Withdrawn) An animal produced by the method of claim 14.

21. (Withdrawn) An animal produced by the method of claim 15.

22. (Currently Amended) [[A]] The method for preparing a donor cell for nuclear transfer according to claim 3, wherein the membrane antigen marker ~~that is specifically expressed in undifferentiated cells~~ is selected from the group consisting of SSEA-1 (stage-specific embryonic antigen-1), ~~CD117 (c-kit), and~~ sca-1 (Stem Cell Antigen), ~~and CD31 (PECAM-1, Platelet Endothelial Cell Adhesion Molecule-1).~~